

Components

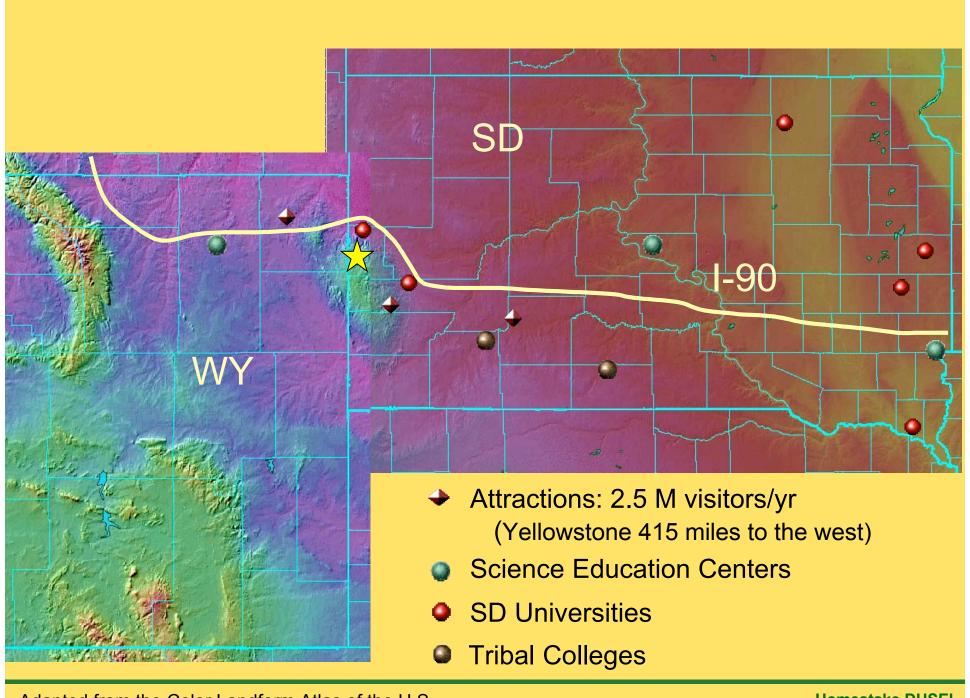
- Visitor Center / Interactive Science Center
- Research Experiences
- Teacher Professional Development & Preparation of Future Teachers
- Distance Education
- Lectures & Short-courses

Themes

- Sparking Public Interest and Increasing Public Understanding
- Serving Diverse Audiences
- Fostering an Intellectually Rich Environment
- Optimizing Scientist Involvement
- Approaching E&O as Scholarship

Infusing & Supporting the Work

- Rigorous Research & Evaluation
- Supportive Climate & Infrastructure
- Partnerships
 - Scientists, science educators, & education researchers
 - National and regional universities, tribal colleges, K-12 school districts, government agencies, & Science Centers
- Technology

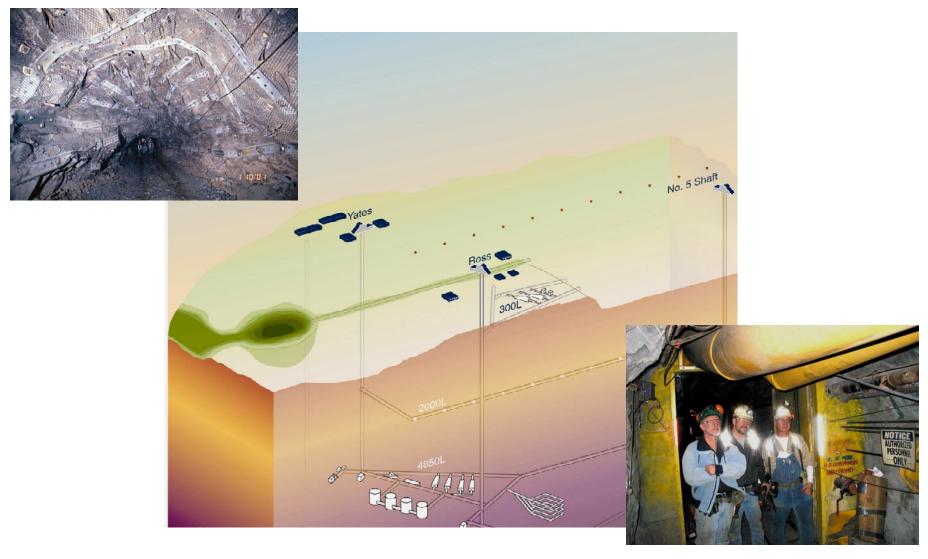


Concept for Science Education Center









Underground Science Experience at 300 ft

Early Implementation

- Partnering with South Dakota's Center for the Advancement of Mathematics & Science Education (CAMSE)
 - CAMSE brings existing capacity and strong regional relationships
 - A division of CAMSE has been established at Homestake for rapid development of E&O
- Drawing on expertise from LIGO, Fermilab, Exploratorium, etc.

Audiences & Impact

Current:

- Teachers: 1,000/yr

K-12 Students: 30,000/yr

- General Public: 50,000/yr





Vision:

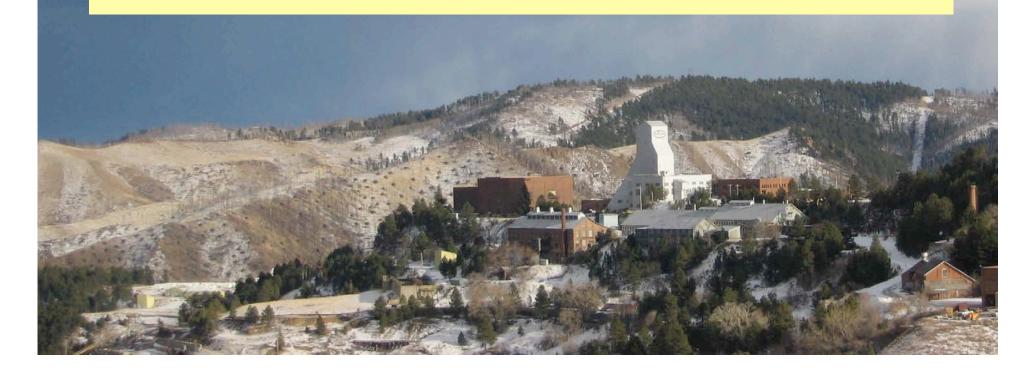
– Teachers: 2,000/yr

K-12 Students: 60,000/yr

General Public: 250,000/yr

Homestake E&O Strengths

- λ Committed project leaders, state leaders, and area educators
- βuilding on existing exprience & partnerships
- ρ Plans in place for early implementation
- λ Fiscal resources (including Sanford gift)



E&O Strengths (continued)

- λ Captivating science across disciplines
- Interesting history of science, science of mining, site history...
- Ωpportunities to collaborate with teaching colleges and tribal colleges
- λ Location: campus, access, & audiences

